

**ECS Configuration Change Request**

|   |                                 |   |   |  |  |                        |
|---|---------------------------------|---|---|--|--|------------------------|
| <b>1. Originator</b><br>Cherry Kenney   | <b>2. Log Date:</b><br>04/28/03 | <b>3. CCR #:</b><br>03-0301                 | <b>4. Rev:</b><br>II  | <b>5. Tel:</b><br>301-883-4177                   | <b>6. Rm #:</b><br>3204D   | <b>7. Dept.</b><br>DEV |
| <b>8. CCR Title:</b> Patch_6A.07_DPL.08C  |                                 |   |   |  |  |                        |
| <b>9. Originator Signature/Date</b><br>Cherry Kenney /s/ 04/25/03   |                                 |   | <b>10. Class</b><br>II  | <b>11. Type:</b><br>CCR                          | <b>12. Need Date:</b> 28Apr03                                      |                        |
| <b>13. Office Manager Signature/Date</b><br>Louis Swentek /s/ 04/25/03  |                                 |   | <b>14. Category of Change:</b><br>Other   |  | <b>15. Priority:</b> (If "Emergency" fill in Block 27).<br>Routine |                        |
| <b>16. Documentation/Drawings Impacted</b> (Review and submit checklist):   |                                 |   | <b>17. Schedule Impact:</b>   |  | <b>18. CI(s) Affected:</b> DPL                                     |                        |
| <b>19. Release Affected by this Change:</b><br>6A   |                                 | <b>20. Date due to Customer:</b><br>25Apr03 |   | <b>21. Estimated Cost:</b><br>Medium - Over 500K |  |                        |
| <b>22. Source Reference:</b> <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:<br>See additional sheet for NCR list  |                                 |   |   |  |  |                        |
| <b>23. Problem: (use additional Sheets if necessary)</b><br>This patch includes the monthly rollup of DPL   |                                 |   |   |  |  |                        |
| <b>24. Proposed Solution: (use additional sheets if necessary)</b><br>Deliver Patch_6A.07_DPL.08C to all DAACs.   |                                 |   |   |  |  |                        |
| <b>25. Alternate Solution: (use additional sheets if necessary)</b><br>Wait until next DPL delivery.  |                                 |   |   |  |  |                        |
| <b>26. Consequences if Change(s) are not approved: (use additional sheets if necessary)</b><br>Identified DPL problems will continue.   |                                 |   |   |  |  |                        |
| <b>27. Justification for Emergency (If Block 15 is "Emergency"):</b><br>NA  |                                 |   |   |  |  |                        |
| <b>28. Site(s) Affected:</b> <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL<br><input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other |                                 |   |   |  |  |                        |
| <b>29. Board Comments:</b>  |                                 |   | <b>30. Work Assigned To:</b>  |  | <b>31. CCR Closed Date:</b>  |                        |
| <b>32. EDF/SCDV CCB Chair (Sign/Date):</b><br>Byron V. Peters /s/ 04/28/03  |                                 |   | <b>Disposition:</b> <span style="border: 1px solid red; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB<br>Fwd/ECS |  |  |                        |
| <b>33. M&amp;O CCB Chair (Sign/Date):</b><br>Debra Stepp /s/ 04/28/03   |                                 |   | <b>Disposition:</b> <span style="border: 1px solid red; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB<br>Fwd/ECS |  |  |                        |
| <b>34. ECS CCB Chair (Sign/Date):</b>   |                                 |   | <b>Disposition:</b> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB<br>Fwd/ESDIS   |  |  |                        |

# ADDITIONAL SHEET

**CCR #:** 03-0301      **Rev:**      — **Originator:** Cherry Kenney

**Telephone:** 301-883-4177      **Office:** 3204D

**Title of Change:** Patch\_6A.07\_DPL.08C

ClearCase Group(CSG):

Please make the following tarfiles from the 6A07EBF1 baseline

Please make a SOL8 tar file with the following packages:

.EcDI.pkg  
.EcDIWebAccess.pkg  
.EcDIGUI.pkg  
.EcDIWebRollup.pkg  
.EcDICommon.pkg

Please make a IRIX tar file with the following packages:

.EcDIDatabase.pkg  
.EcDICommon.pkg

Please name this tar file Patch\_6A.07\_DPL.08C

Continued from Block 22 & 23

ECSed36645 SEV3 EDC DAAC Granules deleted from ECS should have the correct DPL insert failure  
ECSed36797 SEV4 EDC DAAC ECS wrong granule size is propagated to DPL - it needs recalculation  
ECSed37145 SEV1 EDC DAAC DataPool Database Issue:DataPool Inserts not work  
ECSed37167 SEV2 EDC DAAC OPS:6A.07:SA: ActionDriver on e0dps01 crashes frequently.  
ECSed37171 SEV2 EDC DAAC 6A.07:DataPool degraded insert times  
ECSed37173 SEV3 EDC DAAC NonCache inserts limited to 4 simultaneous  
ECSed37178 SEV3 EDC DAAC Metadata/Browser Viewer Window Goes Blank  
ECSed36917 SEV2 GSFC DAAC SMC/GSFC: Remove Identity Column in Data Pool Action Q  
ECSed36399 SEV2 LaRC DAAC Slow performance for inserts of orbit data into DIFactSpatial  
ECSed36934 SEV5 LaRC DAAC DataPool needs a script to delete data by shortname and Data date/time  
ECSed36959 SEV3 LaRC DAAC WebAccess: DataPool order gui displays orders where archiveFlag is on  
ECSed37020 SEV3 LaRC DAAC Database: cron job for drill down summary stats needs repackaging  
ECSed37042 SEV3 NSIDC DAAC 6A.07+ TS1 Data Pool Maintenance tool not refreshing home screen  
ECSed35287 SEV2 PVC DPASU: Need to handle access to entire directory in ftp log  
ECSed35328 SEV3 PVC Batch Insert should check that granules are assoc w/ECS or NONECS collection  
ECSed36982 SEV2 PVC Cleanup doesn't retry deadlocks in ProcDeleteSpatialFact  
ECSed37026 SEV2 PVC DPAD kills DPIUs prematurely  
ECSed37078 SEV3 PVC DDM Webaccess: stats scripts take too long to update tables  
ECSed37079 SEV3 PVC DDM Webaccess: size needs to be added to ESDT stats  
ECSed37111 SEV3 PVC DPAD core dump in PVC.  
ECSed37266 SEV3 PVC Webaccess: Application Error when choosing new data set on theme drilldn  
ECSed37271 SEV2 PVC DPASU: Running Web/Ftp Access stats w/o browse causes errors  
ECSed37335 SEV3 PVC DPAD hangs after stored procedure change  
ECSed37324 SEV2 PVC ProInsertECSAction and ProInsertNonECSAction failed with large batch  
ECSed36565 SEV3 EDF Constraint incorrectly added in Database Build  
ECSed37038 SEV3 EDF DIDbArchiveAccessStat script causes Sybase arithmetic overflow  
ECSed37056 SEV3 EDF Webaccess: use of alt tags not supported on Netscape 7  
ECSed37057 SEV3 EDF WebAccess: inconsistency between 'Data Set' and 'Data Type' usage  
ECSed37059 SEV3 EDF Webaccess: Themes needs to use the same summary stats approach as group  
ECSed37108 SEV3 EDF USE\_CACHE parameter is missing from baseline .cfgparms file  
ECSed37177 SEV3 EDF DB: SPs in DIDbSSS.sp do not contains meaningful error messages.  
ECSed37222 SEV3 EDF Webaccess: map height and width are null  
ECSed37218 SEV2 SubsysDesc: EcDIPopulateStatTablesMkcfg misspelled in cfgpatch  
ECSed37289 SEV2 DIDbRestoreAccessStat: failed due to dropping of identity column, Assigne

## Patch/TE Dependencies

Patch\_6A.07\_DPL.08C supersedes TE\_6A.07\_DPL.07.

Patch\_6A.07\_SSS.02 must be installed the same time as Patch\_6A/07\_DPL.08C. There is a SSS database patch that corresponds to one of the DPL database patches.

## DAAC INSTALL INSTRUCTIONS

### A. PRE - INSTALLATION

1. Copy the \*irix65\* tar files into the <staging\_area>/IRIX65 directory
2. Copy the \*sun5.8\* tar files into the <staging\_area>/SOL8/ directory
3. Using the Setup.ksh files untar the tar files in both directories
4. When prompted, you will not need to install a new version of EcsAssist.
5. cd <staging\_area>/IRIX65/CUSTOM/dbms

```
chmod -R 775 *
```

6. Bring down all DPL servers

### B. INSTALLATION:

Logon to any SUN host and install the listed packages using E.A.S.I

```
.EcDI.pkg  
.EcDIWebAccess.pkg  
.EcDIGUI.pkg  
EcDIWebRollup.pkg  
.EcDICommon.pkg  
EcDIDatabase.pkg  
.EcDICommon.pkg(install on SOL8 and IRIX65 host)
```

### C. CONFIGURATION:

1. There are two new DPL Mkcfs being delivered for the first time with this patch.

EcDIGetGranIdsMkcfg (this is the Mkcfg for the utility in NCR 36934)

EcDIPopulateStatTablesMkcfg (this is the Mkcfg for the crontab script which updates statistics tables for Data Pool Web Access - see NCR 37020)

Using the ECS Assist Manager, Subsystem Manager, run EcDIGetGranIdsMkcfg( via the xxdps01 host)and EcDIPopulateStatTablesMkcfg( via the xxacgnn host) .

2. If you have modified InCacheTimeLimit and OnTapeTimeLimit as a workaround for NCR37026, use the Data Pool Maintenance GUI to set these parameters back to their correct value, ie. convert InCacheTimeLimit from seconds to minutes and convert OnTapeTimeLimit from seconds to minutes.

### D. DATABASE INSTALLATION

IMPORTANT NOTE: . Run the DIDbSybaseLogins script before applying DPL patch 6131. This script will add userid EcDIGetGranIds, which is a new user for the new utility created for NCR 36934. To run this script, login to the Data Pool Sybase server host (x0acg0n), cd to /usr/ecs/<mode>/CUSTOM/dbms/DPL, and type

```
DIDbSybaseLogins sa <x0acg0n_srvr>
```

You will be prompted for the sa password.

1. Logon to the xxacgnn host (where the the DPL Database Package is installed)
2. Bring up Ecs Assist Subsystem Manager and patch the DPL database up to Patch 6135

Patch Number Patch Description

6119 - patch was delivered in 6A.07 release

6121 - patch was delivered in Patch\_6A.07\_DPL.02  
6123 - patch was delivered in Patch\_6A.07\_DPL.02  
6125 - modified stored procedures for NCR 36655(delivered in Patch\_6A.07\_DPL.04)  
6127 - also modified ProcDeleteProcess for NCR 36796 and modified stored procedures for Access Stats NCRs 3874/36160(delivered in Patch\_6A.07\_DPL.04)  
6129 - NCR37145 - ProcGetFileVolumeGroup needs to look for granules in the closed Volume Group  
6131 - NCR 36917 - remove identity columns; NCR35328 - Batch Insert procs; NCR36797 - wrong granule size; NCR37059 - theme stat table; NCR36399 - Remove ProclnertDIFactSpatial; NCR36798 - update ProcGetScienceGranFiles to return correct message; NCR37078: stats script take too long; NCR37079: add size to DStatESDT.  
6135 - NCR 37324: ProclnertECSActions and ProclnertNonECSActions

## E. POST INSTALLATION

### 1. Bring up DPL servers

2. IMPORTANT NOTE: The cron job for NCR 37020 must be set up. Instructions are:

Edit the crontab owned by cmshared (i.e., login as cmshared, crontab -e) as follows:

Remove the 2 lines FOR YOUR MODE which execute DIDbUpdateGroupStats.sql and DIDbUpdateESDTStats.sql  
Add a new line which executes the EcDIPopulateStatTables.pl script once per hour. Using the syntax below. It does not matter at what time within the hour that the script is executed.

Example: (all the lines listed below should be on one line in the crontab file)

```
0 * * * * /bin/csh -c "/tools/bin/perl -I/usr/ecs/OPS/CUSTOM/utilities  
-I/tools/perl/perl_5.6.1/lib/5.6.1/sun4-solaris  
-I/tools/perl/perl_5.6.1/lib/site_perl/5.6.1/sun4-solaris  
/usr/ecs/OPS/CUSTOM/utilities/EcDIPopulateStatTables.pl OPS"
```

(This example executes the PopulateStatTables script once an hour on the hour for OPS mode.)

### 3. SPECIAL INSTRUCTIONS FOR DATAPOOL COMMAND LINE UTILITY

A new Data Pool command line utility is being provided with this patch, per NCR 36934, which allows an operator to cleanup data from the Data Pool by ShortName, VersionId, and Range Beginning/Ending Date. The utility is called EcDIGetGranIds, and may be run as follows:

a. Run the EcDIGetGranIds.pl script using the following syntax:

```
EcDIGetGranIds.pl <mode>  
-esdt <shortname, e.g., MISBR>  
-versionid <versionid in integer format, e.g., 4>  
-startdate "yyyy/mm/dd"  
-enddate "yyyy/mm/dd"  
> <cleanupfilename>
```

When the script runs, it will find all granuleids in the Data Pool in the <mode> which have the specified shortname/versionid, and whose RangeBeginningDate and RangeEndingDate are in the specified range.

If the script is run without the "> <cleanupfilename>" syntax, the output (a list of granuleids) will go to stdout. However, if the "> <cleanupfilename>" syntax is used, the output list of granuleids will be directed to a file named "cleanupfilename" in the /utilities directory. If the "cleanupfilename" file already exists, output will be appended to it; if it does not already exist, it will be created.

b. Run the Data Pool Cleanup utility with the -file option (EcDICleanupDataPool.pl <mode> -file <cleanupfilename>) to remove all granules from the Data Pool whose granule ids are listed in the cleanupfile. Note that Cleanup will remove all of these granules (both from disk and from the database), REGARDLESS of whether they have expired.

c. rm <cleanupfilename> (if desired)